

# Weekly Report

20171107-20171113

Han Dongming Nov. 13 2017

## Done

- 1. dataV复赛
- 2. RankView paper 意见整理

## Paper

Nan Cao

TargetVue: Visual Analysis of Anomalous User Behaviors in Online Communication Systems  
Voila: Visual Anomaly Detection and Monitoring with Streaming Spatiotemporal Data  
还有一些异常检测的文章

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**Visualization for Anomaly Detection and Data Management by Leveraging Network, ...**  
WANG Z, CHONG CS, GOH RSM, ZHOU W, P... 2012 Ieee 18th Int Conf Parallel Distributed Syst 2012

**#FluxFlow: Visual Analysis of Anomalous Information Spreading on Social Media**  
Zhao J, Cao N, Wen Z, Song Y, Lin Y, Collins C Ieee T Vis Comput Gr 2014
























**Bridging the Gap of Network Management and Anomaly Detection through Interacti...**  
Zhang T, Liao Q, Shi L 2014 Ieee Pac Vis Symposium 2014

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**Histogram-based traffic anomaly detection**  
Kind A, Stoecklin M, Dimitropoulos X Ieee Transactions Netw Serv Management 2009

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-  **Visual Analytics for the Detection of Anomalous Maritime Behavior**  
Riveiro M, Falkman G, Falkman G, Ziemke T 2008 [12th Int Conf Information Vis 2008](#)
-  **TargetVue: Visual Analysis of Anomalous User Behaviors in Online Communication Sy...**  
Cao N, Shi C, Lin S, Lu J, Lin Y, Lin C [Ieee T Vis Comput Gr 2016](#)
- A Novel Visualization Technique for Electric Power Grid Analytics**  
Wong P, Schneider K, Mackey P, Foote H, Chin G, Guttromson R, Thom... [Ieee T Vis Comput Gr 2009](#)
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Krause J, Perer A, Bertini E [Ieee T Vis Comput Gr 2014](#)
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 Keshav S [Acm Sigcomm Comput Commun Rev 2007](#)
-  **Orion: A system for modeling, transformation and visualization of multidimensional ...**  
 Heer J, Perer A [Ieee 2011](#)
-  **Iterative cohort analysis and exploration**  
 Zhang Z, Gotz D, Perer A [Inform Visual 2015](#)
-  **Supporting Iterative Cohort Construction with Visual Temporal Queries**  
 Krause J, Perer A, Stavropoulos H [IEEE Transactions on Visualization and Computer Graphics 2016](#)

# 想法

## 框选

屏幕内许多点，用户想要框选其中一部分的时候

1. 加入选项辅助，例如类别，度数，方向。框选的时候自动去除不符合选项的
2. 自动识别其中的特征，例如框选了一条长长的边，去查询全局类似，或者对附近的邻域探索，补全等。
3. 自定义框选的形状，例如指定半径的圆形，探索时可以进行衡量
4. 更具输入的语义，或记录操作，生成对数据的探索的动画，达到演示效果。